Maryland Historical Trust

Maryland Inventory of Historic Properties number: QQL -/	468
Name: 6008/RX, 31000 Sems	-Cell
The bridge referenced herein was inventoried by the Maryland State I Historic Bridge Inventory, and SHA provided the Trust with eligibilit The Trust accepted the Historic Bridge Inventory on April 3, 2001. T determination of eligibility.	Highway Administration as part of the y determinations in February 2001.
MARYLAND HISTORICAL TR	RUST
mana and and and and and and and and and	ibility Not Recommended
Criteria:ABCD Considerations:AB	CDEFG _None
Comments:	
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001
Poviover NP Program: Poter E Vivites	Date3 April 2001

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

MHT No. CARR-1468

SHA Bridge No. 6008 Bridge name Route 31 over Sams Creek	
LOCATION: Street/Road name and number [facility or compared to the compared to	carried] Sams Creek
City/town New Windsor	Vicinity X
County Carroll	
This bridge projects over: Road	Railway Water X Land
Ownership: State X County	Municipal Other
National Register-listed district	historic district? Yes No _X National Register-determined-eligible district Other
BRIDGE TYPE: Timber Bridge:	Covered Trestle Timber-And-Concrete
Metal Truss Bridge	
	scule Single Leaf Bascule Multiple Leaf tractile Pontoon
	lled Girder Concrete Encased te Girder Concrete Encased
Metal Suspension	
Metal Arch	
Metal Cantilever	
Concrete X : Concrete Arch : Concrete Other : Type Name :	e Slab <u>X</u> Concrete Beam Rigid Frame

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DESCRIPTION:			
Setting: Urban	Small town	Rural	X
Describe Setting:			
Bridge No. 6008 carries Route	31 over Sams Creek.	The road runs east	t-west while Sams Creek flows in a
		ral area surrounde	ed by open fields and farms. One
farmhouse can be seen from the	bridge.		
Standard Detail Sheets from 19 surface, and solid panelled con	-lane concrete slab brid 924. The superstructure acrete parapets. All of a solid shaft concrete	re comprises a confithe approaches appear, and flared v	and this bridge corresponds to SHA oncrete slab, a bituminous wearing have guiderails. The substructure wingwalls. The bridge has a clear lear roadway width is 24'-6".
Discuss Major Alterations:			•
· ·		s/alterations made	e to this bridge, when they were
HISTORY:			
WHEN was the bridge built (a	ictual date or date ran	ισε) 1929	
This date is: Actual X		Estimated	
Source of date: Plaque	Design plans	County bri	dge files/inspection form
Other (specify) Maryland State	<u> Highway Administrat</u>	ion bridge files	
W/W/ 4h - h 1 1 140			
WHY was the bridge built? Unknown			
WHO was the designer?			
Unknown			
W/IIO 4h - h21d9			•
WHO was the builder? Unknown			
Charlown			
WHY was the bridge altered?			
Extent of alterations/repairs unk	nown		
Was this bridge built as part o	f an organized bridge	-building campai	gn?
Unknown			
SURVEYOR/HISTORIAN AN	NALYSIS:		
This bridge may have Nationa			n with:
A - Events	B- Person		
C- Engineering/archite	ectural character	*	
Was the bridge constructed in Reinforced concrete slab bridge			land or local history? oe, easily adapted to the need for

expedient engineering solutions. Reinforced concrete technology developed rapidly in the early

twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-04 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's road and bridge improvement programs mirrored economic cycles. The first road improvement program of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war-related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920 to 1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund [with an equal sum from the counties] the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had become inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930s. Most improvements to local roads waited until the years after World War II.

With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer stated in 1906, "The general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do way with the further expense of the maintenance of expensive and dangerous wooden structures". Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

The creation of standard plans and a description of their use was first announced in the 1912-15 Reports of the State Roads Commission whereby bridges spanning up to 36 feet were to use standardized designs.

Published on a single sheet, the 1912 Standard Plans included those structures that were amenable to such an approach: slab spans, (deck) girder spans, box culverts, box bridges, abutments, and piers (State Roads Commission 1912). Slab spans, with lengths of 6 to 16 feet in two foot increments, featured a solid parapet that was integrated into the slab, with a roadway of 22 feet.

In the Report for the years 1916-1919, a revision of the standard plans was noted:

During the four years covered by this report, it has been found necessary to revise our standard plans for culverts and bridges, to take care of the increased tonnage which they have been forced to carry. Army cantonments...increased their operations several hundred per cent, and the brunt of the enormous truck traffic resulting therefrom, was borne by the State Roads of Maryland. In addition to these war activities, freight motor lines from Baltimore to Washington, Philadelphia, New York, and various points throughout Maryland,

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and the weight of many of these trucks when loaded, was in excess of the loads for which our early bridges were designed (State Roads Commission 1920:56).

Published on separate sheets, the new standard plans (State Roads Commission 1919) for slab bridges reveal that the major changes was an increase in roadway width from 22 feet to 24 feet and a redesign of the reinforcement. The slab spans continued to feature solid parapets integrated into the span. The range of span lengths remained 6 to 16 feet, but the next year (1920) witnessed the issue of a supplemental plan for a 20 foot long slab span (State Roads Commission 1920).

The 1924 standard plans remained in effect until 1930, when the roadway width for all standard plan bridges was increased to 27 feet in order to accommodate the increasing demands of automobile and truck traffic (State Roads Commission 1930). The range of span lengths remained the same, but there were some changes designed to increase load bearing capacities. The reinforcing bars were increased in thickness. Visually, the 1930 design can be distinguished from its predecessors by the pierced concrete railing that was introduced at this time.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?
Unknown.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

No. This bridge is not located in an area which may be eligible for historic designation.

Is the bridge a significant example of its type?

No. Bridge No. 6008 is not a significant example of its type.

Does the bridge retain integrity of important elements described in Context Addendum?

Unknown. This bridge appears to have retained the integrity of its original design. However, in the absence of inspection reports and documentation concerning repairs/alterations this supposition cannot be confirmed.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer? No. This is not a significant example of the work of the State Roads Commission.

Should the bridge be given further study before an evaluation of its significance is made?

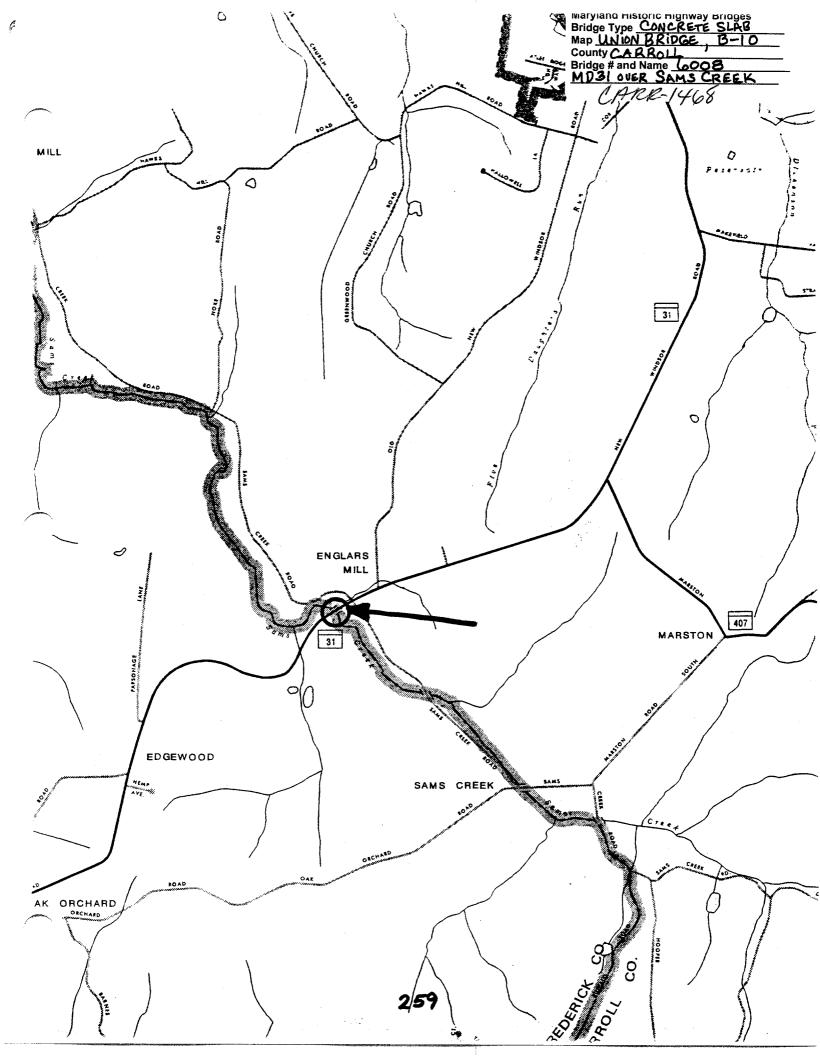
No further evaluation is necessary to determine National Register significance. Although it reflects the expansion of secondary road systems in Maryland, it is not an exceptional example of its type. However, additional research concerning the history of this bridge and its relationship to the surrounding landscape may be useful in providing a more complete picture of the bridge's background.

BIBLIOGRAPHY:		
County inspection/bridge files	SHA inspection/bridge files	X
Other (list):		

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SURVEYOR:

Date bridge recorded	August 1995
Name of surveyor Leo	Hirrell
Organization/Address 1	P.A.C. Spero & Company; 40 West Chesapeake Avenue, Suite 412; Baltimore,
Maryland 21204	
Phone number 410-296	5-1635 FAX number 410-296-1670





Inventory # CARR-1468	
Name Md. 31 over Sams Creek County/State Carroll Co. Md. Name of Photographer Dich	
County/State <u>Carroll</u> Co. Md.	
Name of Photographer 5 Dich/	
Date 2-95	
Location of Negative	
Description west approach looking east	
Number 45 of 37 4	G(*0)



Inventory # 2000-1463	
Name Md. 31 over Sams Creek County/State Carroll Co. Md. Name of Photographer D. Diehl	
County/State <u>Carroll</u> Co. Md.	
Name of Photographer Dibiehl	
Date 2-95	
Location of Negative	
Description north elevation looking Southeast	
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Inventory # CARR- 1468	
1.00%	
Name Md. 31 over Sams Creek County/State Carroll Co. Md.	
Name of Photographer D. Diehl	
Date 2 - 95	
Location of NegativeSHA	
Description South elevation looking northwest	
	*O}0



Inventory # CARR - 146 8	
Inventory # China Ch	
Name Md. 31 over Sams Creek County/State <u>Carroll Co. Md.</u>	
Name Md. 31 over sams creek	
County/State Carroll Co. Md.	
Name of Photographer D. Dieh/	
Date 2-95	
Date	
Location of Negative 5H4	
Description <u>east approach looking</u> west	
WEST	
	3T *OF
4. 4	
Number Hof 32	